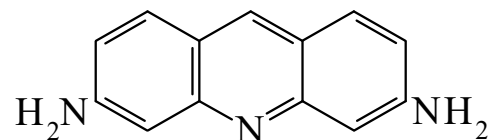




>>>Entry Name: **3,6-Acridinediamine**, 9CI

Synonym(s): 3,6-Diaminoacridine. 2,8-Diaminoacridine (obsol.). **Proflavine**, INN. Isoflav. Pancridine. Sanoflavin



CAS Registry Number: 92-62-6

Related CAS Registry Numbers(s): 86-40-8 8048-52-0

Molecular Formula: C₁₃H₁₁N₃

Molecular Weight: 209.25

Accurate Mass: 209.095297

Percentage Composition: C 74.62%; H 5.30%; N 20.08%

Use/Importance: Derivs. are antiseptics. A DNA intercalator

Physical Description: Yellow cryst.

Melting Point: Mp 284-286°

pKa Value: pK_{a1} 9.6 (20°)

Calculated Log P Data: Log P 2.31 (calc)

Other Data: Green fluor. in EtOH, blue in H₂SO₄

Hazard & Toxicity: Potent mutagen. LD₅₀ (mus, scu) 140 mg/kg

>>>Derivative: Hydrochloride

CAS Registry Number: 952-23-8

Melting Point: Mp 270 dec.°

Aldrich: 13110-5

Sigma: P4646

>>>Derivative: Sulfate

CAS Registry Number: 553-30-0

Use/Importance: Antiseptic

Physical Description: Red or red-brown cryst. + 1H₂O

Solubility: Spar. sol. H₂O

>>>Derivative: Methochloride

Synonym(s): 3,6-Diamino-10-methylacridinium chloride, 9CI. **Acriflavinium chloride**, INN. **Acriflavine**‡. Many other names

CAS Registry Number: 8063-24-9

Molecular Formula: C₁₄H₁₄ClN₃

Molecular Weight: 259.737

Accurate Mass: 259.087624

Percentage Composition: C 64.74%; H 5.43%; Cl 13.65%; N 16.18%

Use/Importance: Antiinfective. Used in extraction-separation of Re; forms ion-pair with ReO₄⁽⁻⁾. Redox indicator

Physical Description: Red needles or prisms (H₂O); orange needles (EtOH)

Solubility: Sol. H₂O, EtOH

Other Data: Commercial Acriflavine is normally a mixt. of methochloride-hydrochloride salt and dihydrochloride salt. Dil. aq. soln. shows green fluorescence

Aldrich: 12126-6

Fluka: 1675

Sigma: A8251

>>>Derivative: N³,N⁶-Tetra-Me

see 3,6-Bis(dimethylamino)acridine, [FWH26-T](#)

References: